Material Safety Data Sheet

Diethanolamine DEA (RXSOL-67-1119-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1119-210
Product Type	DI Ethanol Amine

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
DI Ethanol Amine	111-42-2	1272/2008	603-030-00-8

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 34 Causes burns.

4. First Aid Measures

General information	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Call for a doctor immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Mouth respiratory protective device.

6. Accidental Release Measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:
Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. Handling and Storage

Handling:
Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection: No special measures required.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

141-43-5 2-aminoethanol

PEL (USA)	6 mg/m³, 3 ppm Short-term value: 15 mg/m³, 6 ppm Long-term value: 8 mg/m³, 3 ppm
REL (USA)	Short-term value: 15 mg/m³, 6 ppm Long-term value: 7.5 mg/m³, 3 ppm
TLV (USA)	Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Skin
IOELV (EU)	Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm
WEL (Great Britain)	Sk

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Tightly sealed goggles

9. Physical and chemical properties

General Information

Form	Fluid
Colour	Colourless

Odour	Ammonia-like
Change in condition	
Melting point/Melting range	10.3°C
Boiling point/Boiling range	170°C
Flash point	93°C
Ignition temperature	385°C
Danger of explosion	Product does not present an explosion hazard.
Vapour pressure at 20°C	0.3 hPa
Density at 20°C	1.09
Solubility in / Miscibility with water at 20°C	1 g/l
Viscosity:	
Dynamic at 20°C	23 mPas

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	2050 mg/kg (rat)
Dermal	LC50/4 h	1000 mg/kg (rabbit)

Primary irritant effect:

on the skin	Caustic effect on skin and mucous membranes.
on the eye	Strong caustic effect.
Sensitization	No sensitizing effects known.

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological information

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.

13. Disposal considerations

Product:
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class	8 Corrosive substances.
Danger code (Kemler)	80
UN-Number	2491
Packaging group	III
Hazard label	8
Description of goods	2491 ETHANOLAMINE

Maritime transport IMDG

IMDG Class	8
UN Number	2491
Label	8
Packaging group	III
EMS Number	F-A,S-B
Marine pollutant	No
Proper shipping name	ETHANOLAMINE

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	8
UN/ID Number	2491
Label	8
Packaging group	III
Proper shipping name	ETHANOLAMINE

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Risk phrases:
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
34 Causes burns.
Safety phrases:
1/2 Keep locked up and out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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